

Clarke®

WOODWORKER



PLANER

MODEL Nos. CON1020

Part No. 6462026

OPERATING & MAINTENANCE INSTRUCTIONS



LS0610

SPECIFICATIONS

Model	CON1020
Part No	6462026
Voltage	230VAC
Power Input	1020Watts
No Load Speed	16,000RPM
Plug Fuse Rating	13Amps
Input Current Max.	4.5Amps
Max Cutting Depth	3mm
Max. Rebating Depth	20mm
Sound Power Level	101dB LWA
Vibration Emissions	3.847m/s**
Width of Cut	82mm
Exhaust Port Dia. (Inner/Outer)	35/40mm
Dimensions LxWxH	325x190x175mm

** See Notes on page 14 & 15

Please note that the details and specifications contained herein are correct at the time of going to print. However CLARKE International reserve the right to change specifications at any time without prior notice. Always consult the machines data bracket

LIST OF PACKAGE CONTENTS

1. Planer
2. Dust bag
3. Rebate Fence
4. 2 x Securing knobs (one fitted with screw and washer)
5. Rebating Depth Gauge
6. Side fence Bracket
7. 1 x Drive Belt
8. Set of Carbon Brushes
9. Hex. Wrench - 3mm

PARTS & SERVICE CONTACTS

**For Spare Parts and Service, please contact your nearest dealer,
or CLARKE International, on one of the following numbers.**

PARTS & SERVICE TEL: 020 8988 7400

PARTS & SERVICE FAX: 020 8558 3622

or e-mail as follows:

PARTS: Parts@clarkeinternational.com

SERVICE: Service@clarkeinternational.com

Please read these instructions carefully before operating the tool

Thank you for purchasing this **CLARKE** Planer designed for trade use.

Before using the device, please read this manual thoroughly and carefully follow all instructions given. This is for your own safety and that of others around you, and is also to help you achieve a long and trouble free service from your new tool.

CLARKE GUARANTEE

This CLARKE product is guaranteed against faulty manufacture for a period of 12 months from the date of purchase. Please keep your receipt as proof of purchase.

This guarantee is invalid if the product is found to have been abused or tampered with in any way, or not used for the purpose for which it was intended.

Faulty goods should be returned to their place of purchase, no product can be returned to us without prior permission.

This guarantee does not affect your statutory rights.

CONTENTS

Page

Specifications :	2
Carton Contents :	2
Parts and Service Contacts :	2
Guarantee :	3
General Safety Precautions :	4
Additional Precautions for Planers :	5
Electrical Connections :	6
Unpacking and Carton Contents :	7
Operation :	8
Rebating :	9
Maintenance :	10
Replacing Cutter Blades :	10
Replacing Drive Belt :	11
Replacing carbon Brushes :	11
Parts Diagrams and Lists :	12-13
Vibration Emissions :	14
Declaration of Conformity :	15
Vibration Emission Declaration :	15

GENERAL SAFETY PRECAUTIONS



WARNING:

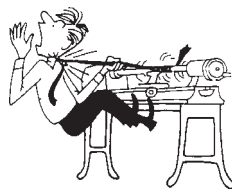


As with all machinery, there are certain hazards involved with their operation and use. Exercising respect and caution will considerably lessen the risk of personal injury. However, if normal safety precautions are overlooked or ignored, personal injury to the operator or damage to property, may result.

1. **ALWAYS** Learn the machines' applications, limitations and the specific potential hazards peculiar to it. Read and become familiar with the entire operating manual.
2. **ALWAYS** use a face or dust mask if operation is particularly dusty.
3. **ALWAYS** check for damage. Before using the machine, any damaged part, should be checked to ensure that it will operate properly, and perform its intended function. Check for alignment of moving parts, breakage of parts, mountings, and any other condition that may affect the machines' operation. Any damage should be properly repaired or the part replaced. If in doubt, **DO NOT** use the machine. Consult your local dealer.
4. **ALWAYS** disconnect the tool/machine from the power supply before servicing and when changing accessories.
5. **ALWAYS** wear safety goggles, manufactured to the latest European Safety Standards. Everyday eyeglasses do not have impact resistant lenses, they are not safety glasses.
6. **ALWAYS** keep work area clean. Cluttered areas and benches invite accidents.
7. **ALWAYS** ensure that adequate lighting is available. A minimum intensity of 300 lux should be provided. Ensure that lighting is placed so that you will not be working in your own shadow.
8. **ALWAYS** keep children away. All visitors should be kept a safe distance from the work area, especially whilst operating the machine.
9. **ALWAYS** maintain machine in top condition. Keep tools/machines clean for the best and safest performance. Follow maintenance instructions.
10. **ALWAYS** handle with extreme care do not carry the tool/machine by its' electric cable, or yank the cable to disconnect it from the power supply.
11. **ALWAYS** ensure the switch is off before plugging in to mains. Avoid accidental starting.
12. **ALWAYS** concentrate on the job in hand, no matter how trivial it may seem. Be aware that accidents are caused by carelessness due to familiarity.
13. **ALWAYS** keep your proper footing and balance at all times, don't overreach. For best footing, wear rubber soled footwear. Keep floor clear of oil, scrap wood, etc.



14. **ALWAYS** wear proper apparel. Loose clothing or jewellery may get caught in moving parts. Wear protective hair covering to contain long hair.
15. **ALWAYS** use recommended accessories, the use of improper accessories could be hazardous and invalidate your guarantee.
16. **ALWAYS** remove plug from electrical outlet when adjusting, changing parts, or working on the machine.
17. **NEVER** operate machine while under the influence of drugs, alcohol or any medication.
18. **NEVER** leave machine running unattended. Turn power off. Do not leave the machine until it comes to a complete stop.
19. **NEVER** force the machine, it will do a better and safer job at the rate for which it was designed.
20. **NEVER** use power tools in damp or wet locations or expose them to rain. Keep your work area well illuminated.
21. **DO NOT** use in explosive atmosphere (around paint, flammable liquids etc.). Avoid dangerous environment.



ADDITIONAL PRECAUTIONS FOR PLANERS

1. **ALWAYS** ensure the cutters are properly secured before use.
2. **ALWAYS** ensure the cutters are sharp, blunt cutters increase the risk of kick back.
3. **ALWAYS** switch the machine OFF immediately the task is completed.
4. **ALWAYS** use with a dust extraction device fitted.
5. **ALWAYS** allow the machine to reach full speed before commencing work.
6. **DO NOT** use the machine if the electric cable, plug or motor is in poor condition.
7. **DO NOT** allow the ventilation slots in the machine to become blocked.
8. **DO NOT** touch the cutter immediately after use, allow time for it to cool.
9. **NEVER** leave machine running unattended, **ALWAYS** ensure the machine is switched off and come to a complete stop before leaving it.
10. **NEVER** proceed unless the workpiece has been thoroughly checked to ensure it is completely free of nails, screws, staples etc.
11. **AVOID** accidental starting, by switching off and isolating from the main electrical supply by removing the plug from the socket. Never load the tool so much that the motor comes to a standstill.
12. **IMPORTANT!** This machine develops considerable noise when in use. **ALWAYS** wear Ear Defenders

Additionally, please keep these instructions in a safe place for future reference.

ELECTRICAL CONNECTIONS

Connect the mains lead to a domestic, 230 volt (50Hz) electrical supply through a fused good quality 13 amp BS 1363 plug, or a suitable fused isolator switch.



THIS PRODUCT IS DOUBLE INSULATED



IMPORTANT: The wires in the mains lead are coloured in accordance with the following code:

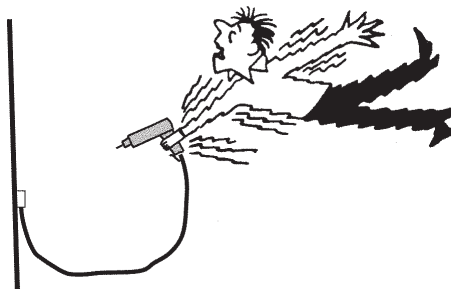
Blue - Neutral
Brown - Live

As the colours of the conductor insulation of this appliance may not correspond with the coloured markings identifying terminals in your plug, you should proceed to connect as follows:

- The BROWN conductor to the terminal marked "L" or coloured RED.
- The BLUE conductor to the terminal marked "N" or coloured BLACK.

If this appliance is fitted with a plug which is moulded on to the electric cable (i.e. non-rewireable) please note:

1. The plug must be thrown away if it is cut from the electric cable. There is a danger of electric shock if it is subsequently inserted into a socket outlet.
2. Never use the plug without the fuse cover fitted.
3. Should you wish to replace a detachable fuse carrier, ensure that the correct replacement is used (as indicated by marking or colour code).



FUSE RATING

The fuse in the plug must be replaced with one of the same rating (**13 amps**) and this replacement must be ASTA approved to BS1362.

If in doubt, consult a qualified electrician. Do not attempt any electrical repairs yourself.

CABLE EXTENSION

Always use an approved cable extension suitable for the power rating of this tool (see specifications), the conductor size should also be at least the same size as that on the machine, or larger. When using a cable reel, always unwind the cable completely.

Clarke[®]
INTERNATIONAL

UNPACKING AND CARTON CONTENTS



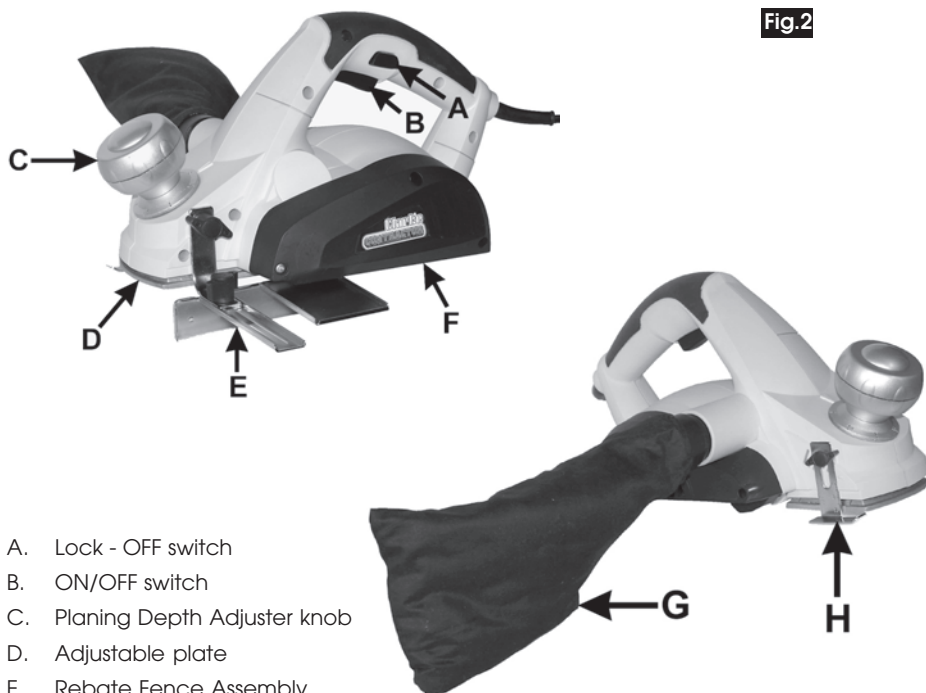
Fig.1

1. Planer
2. Dust bag
3. Rebate Fence
4. 3 x Securing knobs (one fitted with screw and washer)
5. Rebating Depth Gauge
6. Side fence Bracket
7. 1 x Drive Belt
8. Set of Carbon Brushes
9. Hex. Wrench - 3mm

When unpacking, check to ensure that no transit damage has been incurred. Please contact your Clarke dealer immediately should any damage be apparent.

OPERATION

Fig.2



- A. Lock - OFF switch
- B. ON/OFF switch
- C. Planing Depth Adjuster knob
- D. Adjustable plate
- E. Rebate Fence Assembly
- F. Drive Gear Cover
- G. Dust Bag
- H. Rebate Depth Gauge

- Ensure the workpiece is securely clamped.
- To switch the tool ON, press the lock-off button (A) fully and pull the ON/OFF switch (B). To switch the tool OFF, release the ON/OFF switch.
- Set the planing depth (Fig. 1) by turning the adjustment knob (C) until the desired planing depth is reached.
The planing depth can be read from the scale around the knob.
- Hold the machine with both hands using both grips. This ensures optimum control over the machine.
- Ensure the cutters have reached full speed before they touch the workpiece.
- Guide the machine at a constant speed across the material to be worked. Do not move too quickly - allow the machine enough time to plane the workpiece.
- For large surfaces it is recommended to make several shallow cuts at a smaller planing depth.
- Remove the machine completely from the workpiece after use before switching off.
- Lay the machine on its side when placing down.

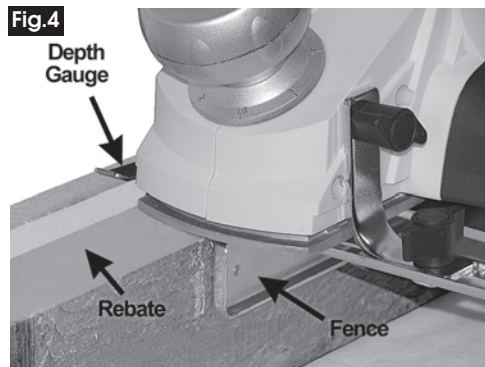
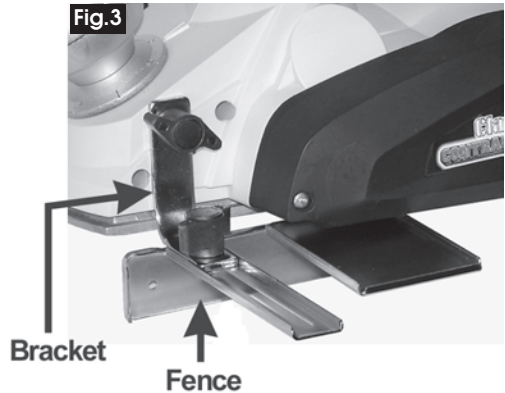
Rebating

Rebates (see Fig.4) may be produced using the rebate fence in conjunction with the depth gauge. The maximum rebate depth is 20mm.

Attach the depth gauge (5, Fig. 1) to the machine in the manner shown at H, Fig.2, using the securing knob provided.

Attach the Rebate Fence as follows:

- Attach the bracket 6, Fig 1 to the machine, using the securing knob provided.
- Attach the Fence to the bracket in the manner shown in Fig. 3, again using the securing knob with screw and washer provided.



Set the depth of rebate using depth gauge, having first of all set the depth of cut using the large adjuster knob.

CLEANING AND MAINTENANCE

The machine does not require any special maintenance except for ensuring it is kept perfectly clean, including the motors ventilation slots.

It may be necessary however to replace the cutter blades, drive belt and motor carbon brushes from time to time. These actions are described below.

Replacing the cutters (fig. 5)

1. Place the machine on a table with the planing base towards you.
2. Rotate the cylinder until the first cutter is visible.
3. Turn the three securing screws (C, Fig.7) fully, in the direction shown in Fig.5.

This will loosen the cutter block assembly from the cylinder.

4. Hold down the safety device with your thumb as shown in Fig. 6, and slide the cutter assembly in the direction shown to remove it from the cylinder.
5. Tap the cutter block assembly gently in order to free the cutter blade, which will either slide out, or the clamping plate - 'B', Fig.7 will become detached from the clamping block 'A' Fig.7, allowing the blade to be removed.

Note: The cutter has two cutting edges. When both cutting edges are worn, the cutter must be replaced.

6. Turn the cutter so that the new cutting edge is facing upwards or take a new cutter and place it between the block - A and the clamping plate - B, ensuring the locating lugs of the clamping plate engage with the clamping block correctly.
7. Slide the cutter block assembly back into the cylinder
8. Secure the cutter block by screwing the screws C, Fig.7 OUT until each one just touches the side of the recess in the cylinder, then tighten the two outer screws first followed by the centre screw.

Adjusting a cutter

With the planing depth set to zero, place a straight edge along the bottom face of the machine. The cutter blade should just touch the straight edge.

If adjustment is necessary, screw the hex. socket head screws - D, Fig 7, (and also shown in Fig. 5), in or out as required, until the cutter blade just touches the straight edge, along its entire length. i.e. the blade must be parallel across the base of the machine.

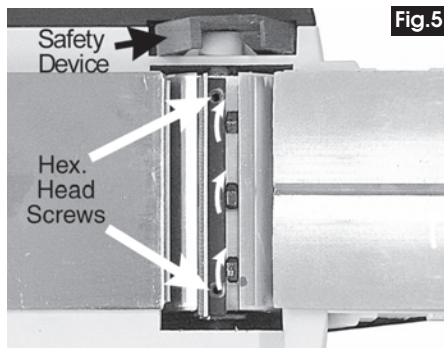


Fig.5

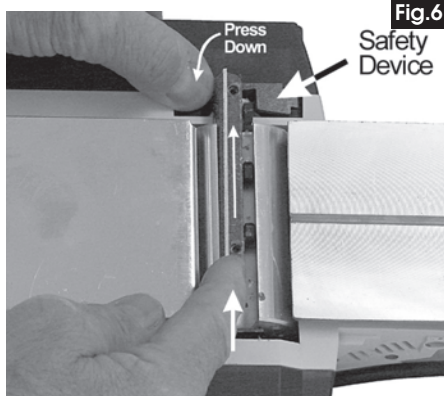


Fig.6

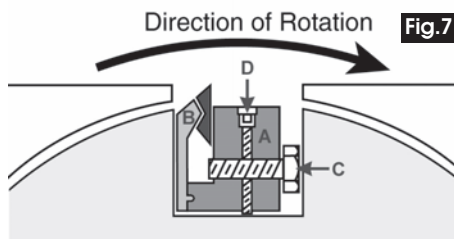


Fig.7

Replacing the Drive Belt

Should the cutter bind in the workpiece, it is probable that the drive belt needs changing. Should this be the case, please proceed as follows:

- Remove the three securing screws, arrowed in Fig. 8 and pull off the cover.
- Pull off the old belt by turning the larger pulley whilst pulling the belt towards you in the middle of its run, so that it gradually eases off the pulleys - take care not to trap your fingers between the belt and pulley.
- Replace the new belt in a similar manner, turning the large pulley whilst pushing the belt over the ridges in the pulleys.

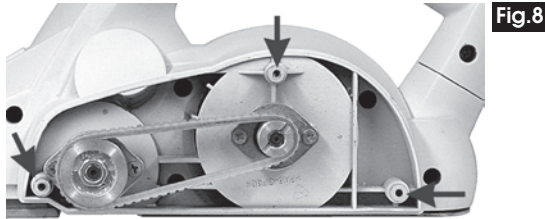
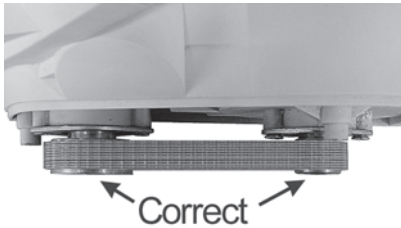
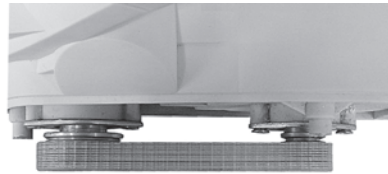


Fig.8

Ensure the belt is fully engaged on both pulleys - see Fig. 9



Correct



Incorrect

Fig.9

- Finally, replace the cover.

Replacing the Carbon Brushes

- Unscrew and remove the side cover - three securing screws.
- VERY carefully prise out the carbon brush holders as indicated in Fig. 10. DO NOT USE FORCE. This can be a little tricky, but once the holder is part way out, use a small screwdriver to prise the holder away from the brush end.
- Disassemble the holder, taking care to retain the plastic end cap.
- Replace the carbon brush and slide the spade connection on to the end of the brush and hold in place with the plastic end cap.
- Replace the holder carefully back into place, again DO NOT USE FORCE to avoid damaging the brush.

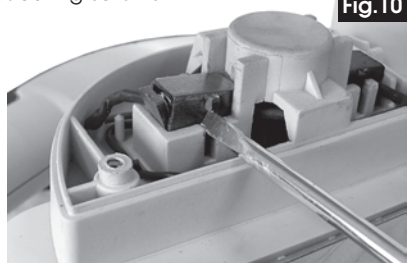
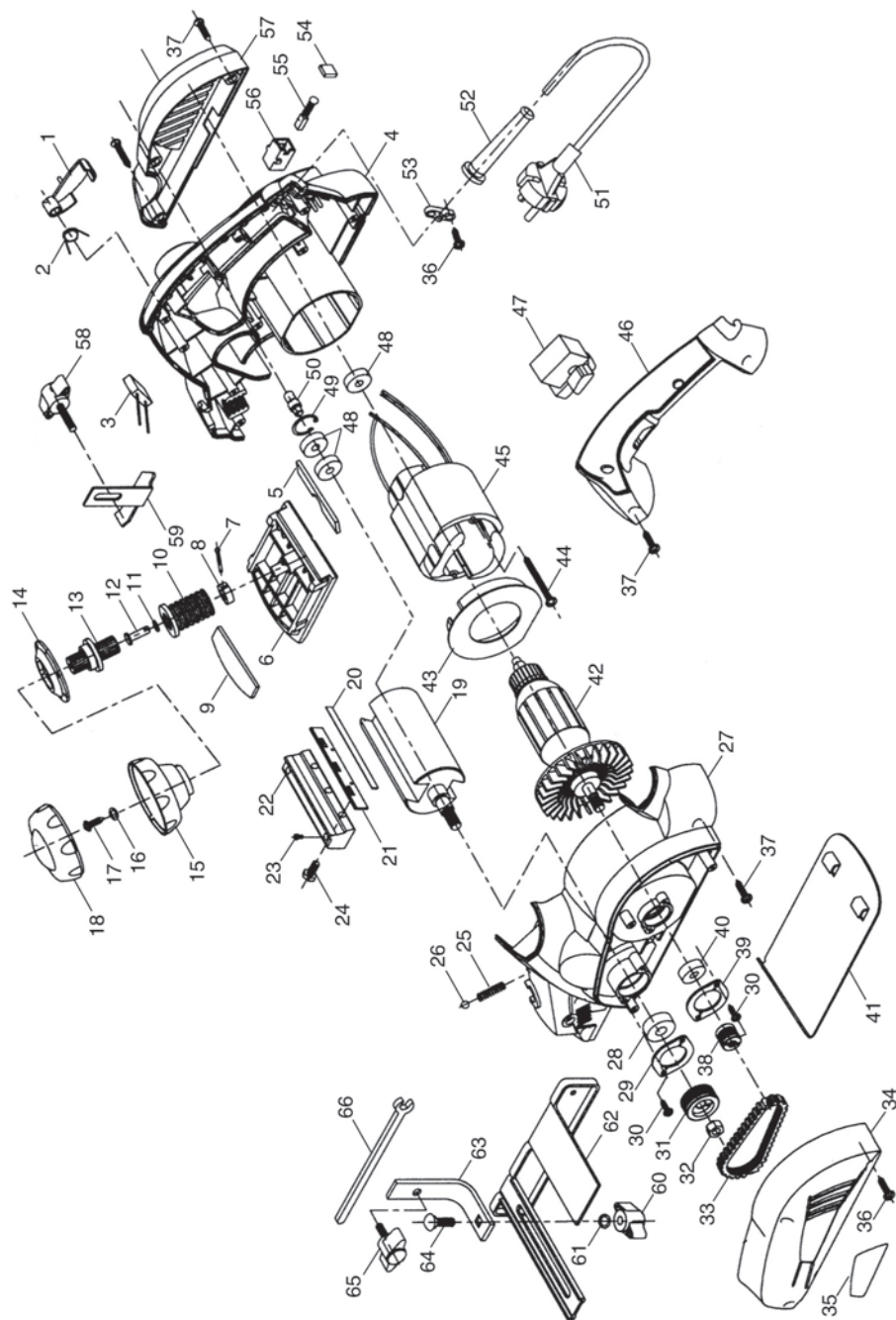


Fig.10

PARTS DIAGRAM



PARTS LIST

No.	Description	Qty	Part No.	No.	Description	Qty	Part No.
1	Baffle	1	KPCON102001	34	Belt cover	1	KPCON102034
2	Spring	1	KPCON102002	35	Label	1	N/A
3	Capacitor 0.22μF	1	KPCON102003	36	Screw	5	KPCON102036
4	Right Housing	1	KPCON102004	37	Screw	13	KPCON102037
5	Dustproof gasket	1	KPCON102005	38	Small pinion	1	KPCON102038
6	Adjustable base	1	KPCON102006	39	Bearing cover	1	KPCON102039
7	Dowel	1	KPCON102007	40	Bearing	1	KPCON102040
8	Join cover	1	KPCON102008	41	Base Plate	1	KPCON102041
9	Dustproof gasket	1	KPCON102009	42	Armature	1	KPCON102042
10	Adjusting screw	1	KPCON102010	43	Fan guide	1	KPCON102043
11	Washer	1	KPCON102011	44	Screw	2	KPCON102044
12	Pin	1	KPCON102012	45	Stator	1	KPCON102045
13	Adjusting knob	1	KPCON102013	46	Handle cover	1	KPCON102046
14	Dial	1	KPCON102014	47	Switch	1	KPCON102047
15	Adjusting knob base	1	KPCON102015	48	Bearing	3	KPCON102048
16	Washer	1	KPCON102016	49	Retaining ring	1	KPCON102049
17	Screw	1	KPCON102017	50	Axis Pin	1	KPCON102050
18	Adjustable knob lid	1	KPCON102018	51	Power cable	1	KPCON102051
19	Blade holder	1	KPCON102019	52	Cable Sheath	1	KPCON102052
20	Blade	2	KPCON102020	53	Cable Retainer	1	KPCON102053
21	Blade Support	2	KPCON102021	54	Cover	2	KPCON102054
22	Fixing block	2	KPCON102022	55	Carbon brush	2	KPCON102055
23	Screw	4	KPCON102023	56	Brush holder	2	KPCON102056
24	Screw	6	KPCON102024	57	Side Cover	1	KPCON102057
25	Spring	1	KPCON102025	58	Screw	1	KPCON102058
26	Steel ball	1	KPCON102026	59	Depth Guide	1	KPCON102059
27	Left housing	1	KPCON102027	60	Thumb Nut	1	KPCON102060
28	Bearing	1	KPCON102028	61	Washer	1	KPCON102061
29	Bearing cover	1	KPCON102029	62	Distance Guide	1	KPCON102062
30	Screw	4	KPCON102030	63	Angle Piece	1	KPCON102063
31	Large Pinion	1	KPCON102031	64	Screw	1	KPCON102064
32	Nut	1	KPCON102032	65	Screw	1	KPCON102065
33	Belt	1	KPCON102033	66	Spanner	1	KPCON102066

HAND-ARM VIBRATION

Employers are advised to refer to the HSE publication "Guide for Employers".

All hand held power tools vibrate to some extent, and this vibration is transmitted to the operator via the handle, or hand used to steady the tool. Vibration from about 2 to 1500 herz is potentially damaging and is most hazardous in the range from about 5 to 20 herz.

Operators who are regularly exposed to vibration may suffer from Hand Arm Vibration Syndrome (HAVS), which includes 'dead hand', 'dead finger', and 'white finger'. These are painful conditions and are widespread in industries where vibrating tools are used.

The health risk depends upon the vibration level and the length of time of exposure to it.....in effect, a daily vibration dose.

Tools are tested using specialised equipment, to approximate the vibration level generated under normal, acceptable operating conditions for the tool in question. For example, a grinder used at 45° on mild steel plate, or a sander on soft wood in a horizontal plane etc.

These tests produce a value 'a', expressed in metres per second per second, which represents the average vibration level of all tests taken, in three axes where necessary, and a second figure 'K', which represents the uncertainty factor, i.e. a value in excess of 'a', to which the tool could vibrate under normal conditions. These values appear in the declaration on page 7.

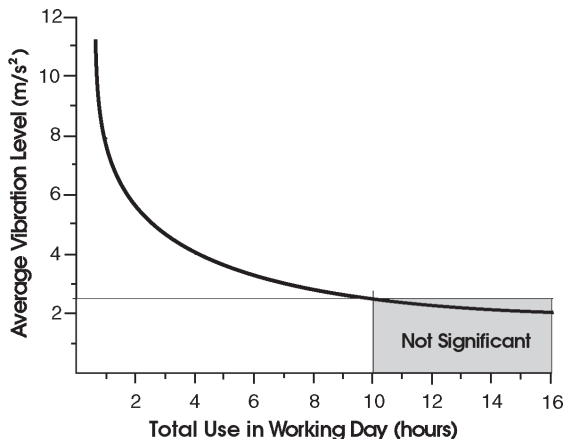
You will note that a third value is given in the specification - the highest measured reading in a single plane. This is the maximum level of vibration measured during testing in one of the axes, and this should also be taken into account when making a risk assessment.

'a' values in excess of 2.5 m/s² are considered hazardous when used for prolonged periods. A tool with a vibration value of 2.8 m/s² may be used for up to 8 hours (cumulative) per day, whereas a tool with a value of 11.2 m/s² may be used for ½ hour per day only.

The graph below shows the vibration value against the maximum time the respective tool may be used, per day.

The uncertainty factor should also be taken into account when assessing a risk. The two figures 'a' and 'K' may be added together and the resultant value used to assess the risk.

It should be noted that if a tool is used under abnormal, or unusual conditions, then the vibration level could possibly increase significantly. Users must always take this into account and make their own risk assessment, using the graph as a reference.



Some tools with a high vibration value, such as impact wrenches, are generally used for a few seconds at a time, therefore the cumulative time may only be in the order of a few minutes per day. Nevertheless, the cumulative effect, particularly when added to that of other hand held power tools that may be used, must always be taken into account when the total daily dose rate is determined.

DECLARATION OF CONFORMITY



Clarke[®]
INTERNATIONAL

Hemnall Street, Epping, Essex CM16 4LG

DECLARATION OF CONFORMITY

This is an important document and should be retained.

We hereby declare that this product(s) complies with the following directive(s):

2004/108/EC *Electromagnetic Compatibility Directive.*
2006/42/EC *Machinery Directive.*
2006/95/EC *Low Voltage Equipment Directive.*
2002/95/EC *Restriction of Hazardous substances.*

The following standards have been applied to the product(s):

EN60745-1:2009, EN60745-2-14:2009, EN55014-1:2006, EN55014-2:1997+A1:2001,
EN61000-3-2:2006, EN61000-3-3:1995+A1:2001+A2:2005.

The technical documentation required to demonstrate that the product(s) meet(s) the requirement(s) of the aforementioned directive(s) has been compiled and is available for inspection by the relevant enforcement authorities.

The CE mark was first applied in: 2006

Product Description: Electric Planer
Model number(s): CON1020
Serial / batch Number: N/A
Date of Issue: 25/06/2010

Signed:

J.A. Clarke
Director

A SELECTION FROM THE VAST RANGE OF

Clarke®

QUALITY PRODUCTS

AIR COMPRESSORS

From DIY to industrial, Plus air tools, spray guns and accessories.

GENERATORS

Prime duty or emergency standby for business, home and leisure.

POWER WASHERS

Hot and cold, electric and engine driven - we have what you need

WELDERS

Mig, Arc, Tig and Spot. From DIY to auto/industrial.

METALWORKING

Drills, grinders and saws for DIY and professional use.

WOODWORKING

Saws, sanders, lathes, mortisers and dust extraction.

HYDRAULICS

Cranes, body repair kits, transmission jacks for all types of workshop use.

WATER PUMPS

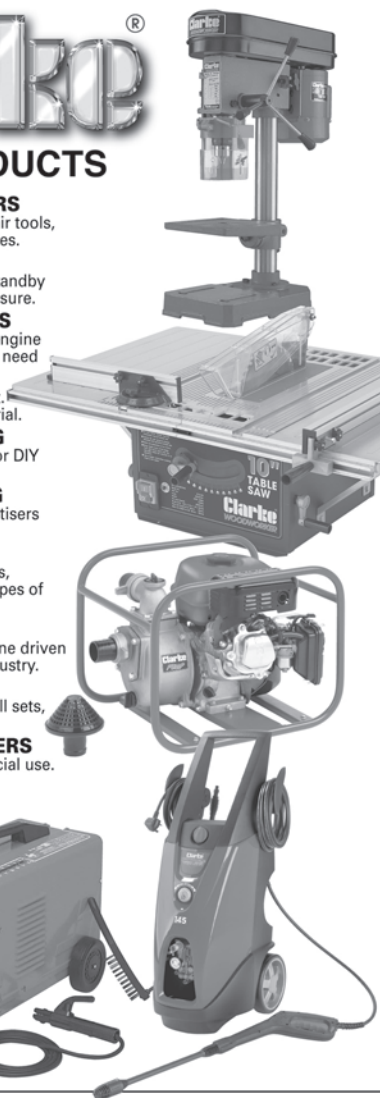
Submersible, electric and engine driven for DIY, agriculture and industry.

POWER TOOLS

Angle grinders, cordless drill sets, saws and sanders.

STARTERS/CHARGERS

All sizes for car and commercial use.



PARTS & SERVICE: 0208 988 7400

E-mail: Parts@clarkeinternational.com or Service@clarkeinternational.com

SALES: UK 01992 565333 or Export 00 44 (0)1992 565335

Clarke® INTERNATIONAL Hemnall Street, Epping, Essex CM16 4LG
www.clarkeinternational.com